

**Amendments to the Claims:**

This listing of claims will replace all prior versions, and listings, of claims in the application:

1. (currently amended) Flexible dental ~~Dental~~-polymer film for coating tooth surfaces, comprising polymerisable groups, which film can be cured by polymerization.
2. (previously presented) Dental polymer film according to claim 1, wherein at least one of the polymerisable groups is an acrylate or methacrylate group.
3. (previously presented) Dental polymer film according to claim 1, wherein the film contains polyurethanes, Michael addition resins or other polyadducts.
4. (previously presented) Dental polymer film according to claim 1, wherein at least a part of the polymerisable groups is radically polymerisable.
5. (previously presented) Dental polymer film according to claim 1, wherein at least a part of the polymerisable groups is cationically polymerisable.
6. (previously presented) Dental polymer film according to claim 1, further comprising an initiator for the thermal, photochemical or redox-induced polymerisation of the polymerisable groups.
7. (previously presented) Dental polymer film according to claim 6, wherein the initiator is in micro-encapsulated form.
8. (previously presented) Dental polymer film according to claim 1, which further comprises organic or inorganic fillers.
9. (previously presented) Dental polymer film according to claim 1, which further comprises one or more polymerisation inhibitors.

10. (previously presented) Dental polymer film according to claim 1, which further comprises one or more antioxidants.

11. (previously presented) Dental polymer film according to claim 1, which further comprises one or more dyes and/or pigments.

12. (previously presented) Dental polymer film according to claim 1, which further comprises a primer.

13. (currently amended) Dental polymer film according to claim 1, wherein when the polymer film having two sides is coated on a tooth surface the side of the polymer film facing the tooth surface is coated with a primer for the hard tooth substance.

14. (previously presented) Dental polymer film according to claim 1, which further comprises an anti-adhesive additive.

15. (currently amended) Dental polymer film according to claim 1, wherein when the polymer film having two sides is coated on a tooth surface the side of the polymer film facing away from the tooth surface is coated with an anti-adhesive additive for plaque.

16. (previously presented) Dental polymer film according to claim 1, which further comprises one or more active substances, antimicrobial compounds, or antibiotics.

17. (previously) Dental polymer film according to claim 1, which is detachably held on a carrier film.

18. (Original) Dental polymer film according to claim 17, wherein the carrier film is in the form of an inflatable film bag.

19. (previously presented) Dental polymer film according to claim 17, wherein the carrier film is translucent.

20. (previously presented) Coated tooth surface comprising a dental polymer film according to claim 1 coating the tooth surface.

21. (previously presented) Coated tooth surface according to claim 20, wherein  
a) the polymer film is applied to the tooth surface and fitted thereto by forming, and  
b) the polymerisable groups of the polymer film applied and fitted are polymerised.

22. (previously presented) Method for coating a tooth surface, comprising  
a) applying the polymer film according to claim 1 to the tooth surface and fitting thereto by forming, and  
b) polymerizing the polymerisable groups of the applied and fitted polymer film.

23. (previously presented) Method according to claim 22, wherein, for the coating of a tooth surface in the approximal space, the approximal space is expanded by means of a tooth separator, the surface to be coated is cleaned and the surface is conditioned by means of an etching technique, after which an adhesive is applied to the tooth surface thus prepared and the polymerisable polymer film is introduced into the approximal space and positioned against the tooth surface and the polymerisable groups are polymerised after forming, to produce a coating.

24. (previously presented) Kit comprising a dental polymer film according to claim 1 for sealing and mechanical protection of the tooth surface and an adhesive for fixing the polymer film to the tooth surface.